I.D. R-536

PROJECT: 9.8039055

SEE SHEET 1-A FOR INDEX OF SHEETS

1) Data sheet
2) sheet 26
3) sheet 27, TCE
4) sheet 27, TDE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOT SHE
N. C.	9.8039055	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
9.8039045		P.E. & R.W
9.8039055		CONSTRUCT

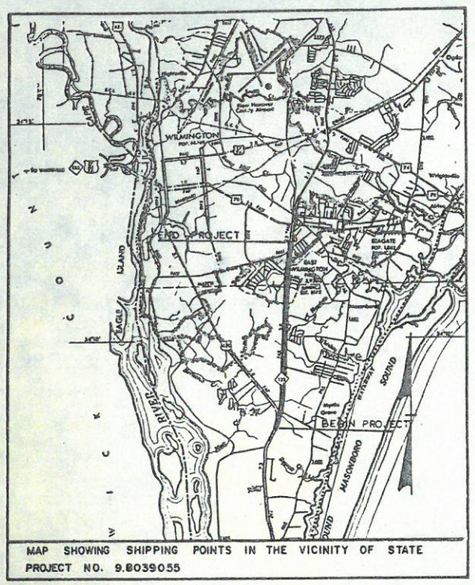
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

NEW HANOVER COUNTY

LOCATION: BEGIN AT THE US 421 INTERSECTION RUNNING NORTH ALONG THE EXISTING LANE OF NC 132 TO THE INTERSECTION OF LAKE AVE.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERTS, LONG LIFE PAVEMENT MARKINGS, RAISED SNOWPLOWABLE MARKERS, SIGNING & SIGNALS.



MAP SHOWING SHIPPING POINTS IN THE VICINITY OF STATE PROJECT NO. 9.8039055

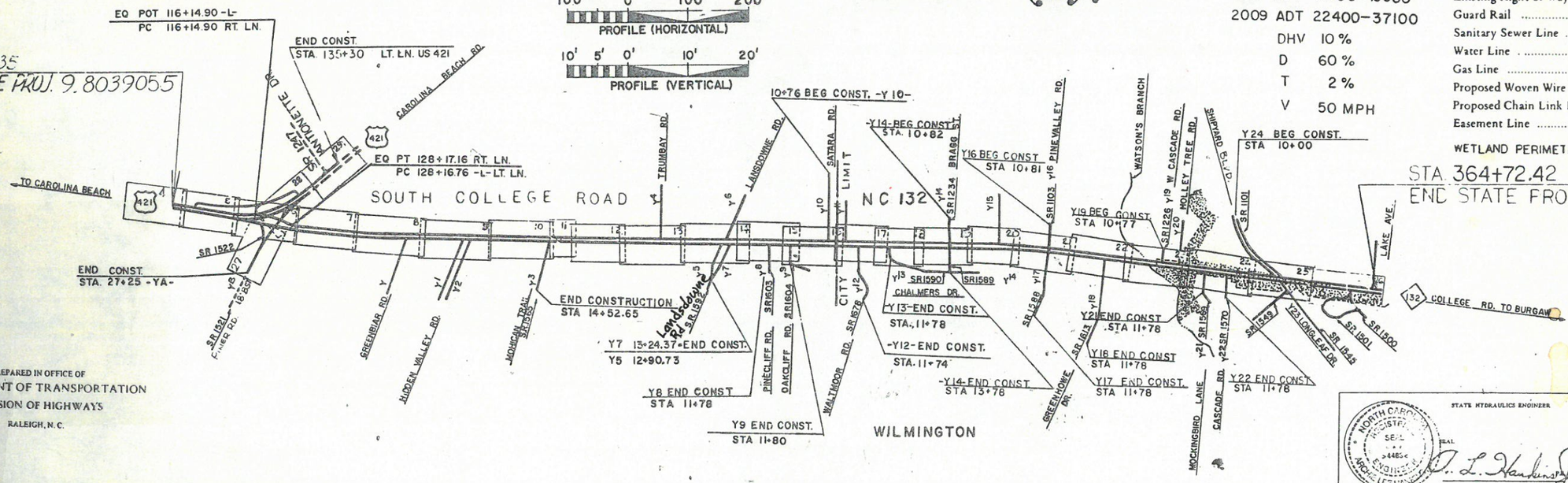
RECEIVED
OCT 3 1991
DIVISION 3
RIGHT OF WAY

GRAPHIC SCALES
50' 0' 50' 100'
PLANS
100' 0' 100' 200'
PROFILE (HORIZONTAL)
10' 5' 0' 10' 20'
PROFILE (VERTICAL)

DESIGN DATA
1989 ADT 11700–19600
2009 ADT 22400–37100
DHV 10 %
D 60 %
T 2 %
V 50 MPH

CONVENTIONAL SIGNS

County Line	
City or Town Line	
Exist. Right of Way Line	
Right of Way Line	(RW)
Survey Line	
Property Line	
Exist. Fence	
Proposed Road	
Existing Road	
Railroad	
Control of Access Line	
Slope Stake Line	
Bridge	
Culvert	
Woods	
Telephone or Telegraph Pole	(EXISTING) (PROPOSED)
Tower Pole and Line	
Power Pole	(EXISTING) (PROPOSED)
Proposed Right of Way Marker	
Existing Right of Way Marker	
Guard Rail	
Sanitary Sewer Line	SS SS
Water Line	
Gas Line	GAS
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Easement Line	E E E
WETLAND PERIMETER	



PREPARED IN OFFICE OF
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.

PLANS PREPARED BY: ROADWAY DESIGN UNIT
J.P. MADDOX, P.E., PROJECT ENGINEER
MIKE DIXON, PROJECT DESIGN ENGINEER

LETTING DATE: OCT. 15, 1991

1990 STANDARD SPECIFICATIONS

LENGTH ROADWAY PROJECT 9.8039055 = 5.064 MILES
TOTAL LENGTH STATE PROJECT 9.8039055 = 5.064 MILES

STATE HYDRAULICS ENGINEER
NORTH CAROLINA REGISTERED SEAL 9446 ENGINEER ARCHIE LEE HARDISON
SEAL
D. L. Hardison
SIGNATURE

ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 15837 ENGINEER J P MADDOX
SEAL
4-30-91
J P Maddox
SIGNATURE P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
NORTH CAROLINA PROFESSIONAL SEAL 4466 ENGINEER DONALD R. MORTON
APPROVED
D R Morton
STATE HIGHWAY ENGINEER - DESI

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ADMINISTRATOR DATE

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
9.8039055	24	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

ELIMINATE CUT DITCH
STA 328+00 STA 333+00 LT.

FOR RC BOX CULVERT PLANS
SEE CULVERT PLANS C13-C15

325 330 335 340

-L1 LN- POT 327+04.12
-Y21- POT 10+00.00

9+00.00-Y21-POT

N 11°08' E

-L1 LN- POT 331+93.05
-Y22- POT 10+00.00

9+00.00-Y22-POT

5FA 333+10
END EXIST PAVT
3 INS.
2 CB. DUAL INS.

5 BLK B BK B

15 BLK B BK B

LONG LEAF MALL ASSOCIATES
DB 1274-1154

16" X 26"

15 BLK B BK B

-L1 LN- POT 340+00 ∠BK =
-L- POT 340+00. 41.66' ∠AH

EIP
S 11°08' 06" W
185.07'

CONC. CURB

EXIST R/W?

BST

30R

40R

10R

23' EXIST.

NC 132

COLLEGE RD.

24' BST

12' EXIST.

300' TAPER

20' - 6' RCP REM.

22' - 15" RCP REM.

200' FULL LANE

225' FULL LANE

60' - 18" RCP REM.

15" RCP

8" PVC

3" PVC T-M

44 TONS
CL. I RIP RAP W/FABRIC 98 SY
DDE 53 CY

EXIST R/W

END CONSTRUCTION
STA 11+78

CONC. DR.

50 FT. TAPER
TIE TO EXISTING PAVEMENT

MOCKINGBIRD LANE
SR 1568
20' BST

S 78°51'12" E

EXIST R/W

-Y21 - POT 13+00.00
END LINE

CASCADE RD.
SR 1570
20' BST

S 88°13'06" E

EXIST R/W

S 78°51'06" E

-Y22- PC 11+56.62

ROGER C. OXFORD, SR
DB 1183-384

-Y22- PT 12+56.40

-Y22- POT 13+00.00
END LINE

WILLIAM D. LATHAM
DB 938-736

N 11°07'54" E

PI -Y22-
PI = 12+06.62
Δ = 9° 21' LT.
D = 9°22' 15"
T = 50.00'
L = 99.78'
R = 611.430

ROBERT W. BROADFOOT
DB 1381-338

30' DRAINAGE EASEMENT

S 16 BLK B BK B

15 BLK B BK B

BST CURB

22' BST

N 85°48'06" E

N 11°07'54" E
207.98'

	3200 / 5500				3300 / 5700		
	2000 / 3400	1100 / 1900			600 / 1000	2500 / 4400	
NC 132	18,500 / 35,100	300 / 500	200 / 300	17,500 / 33,400	100 / 200	300 / 500	19,600 / 37,100

1989 ADT

TYPICAL D
LATERAL 'V' DITCH

b
FILL SLOPE

TYPICAL D
LATERAL 'V' DITCH
STA 333+00 — BOX CULVERT RT.
2:1 SIDE SLOPE
S=6.0%
NOTE : SEE PROFILE FOR DITCH GRADES

TYPICAL A
SPECIAL DITCH DETAIL
STA 336+00 — STA 338+00 PT.
S = 1.0%
FOR DETAIL SEE SHEET NO. 7
NOTE : SEE PROFILE FOR DITCH GRADES

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SH
9.8039055	25	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTIO

DETAIL OF ISLAND LEFT OF STA 343+38

340 345 350 355

-L- POT 340+00 41.66' RT. LINE AH
△ 54° 41.76' RT.
-L- REV PI 340+00 LINE AH
-L LN. POT 340+00 LINE BK
-L- POT 340+00 LINE AH
-L LN. -POT 340+00 LINE BK 41.66' LT.

N12°03'46"W 235.70'
S55°32'38"E 595.47'
100' Y24 POT CONST.

NEW HANOVER COUNTY DB 1484-1817

NEW HANOVER COUNTY HUGH MACRAE PARK DB 162-162

SHIPYARD BLVD SR 1101

343+38.12 -L- POT= 10+00.00 -Y- 23 POT

343+70.10 -L- REV. POT= 10+00 -Y- 23A POT EXIST R/W

343+07.5 -L- POT= 10+44.12 -Y- 23A POT

RW MON

N 10°55' E

POND

4 TON CLASS 'B' STONE EXIST R/W

349+87 BEG. 2'-6" CONC. C&G LT.

EXIST R/W

N 11°14'20.25" E

MONOLITHIC ISLAND

300' TAPER

200' STORAGE

150' STORAGE

N 12°02'41.76" E

N 10°55' E

BEG 8" CURB

8" PVC

10'R

8" CURB

EXIST R/W

END 8"X18" CURB

PROP 8"X18" CURB

1 S BLK B

TEL BOOTH

2-8F CONC. R

CONC. ISLAND

CONC.

6" CONC. CURB

EXIST R/W

N35°37'25"E

N55°31'27"E

LONG LE

EXIST R/W

CM 13+18.95-Y23-POT

13+78.93-Y23

13+00.00 -Y-23 POT END LINE

WINTERGREEN ROAD

-Y-23A
P.I. 13+82.02
Δ 7°8'33"
D 3°
T 119.196'
L 238.08'
R 1909.859'

20,600 / 38,800 SR 1101

LAT. V-DITCH TYP 'A'
346+50 - 349+90 -L-
5' BERM, 4:1 BACK SLOPE

NOTE : SEE PROFILE FOR DITCH GRADES

800 / 1400 14,900 / 28,500

NC 132

19,600 / 37,100 3500 / 6300 1800 / 3200 32,000 / 61,100

TYPICAL 'A'
LAT. 'V' DITCH

PI 349 + 00 -L- REV
Δ 048' 21.51" LT.

END 4' PAV'D SHLD

EXIST R/W

300' TAPER

NEW HANOVER COUNTY HUGH MACRAE PARK DB 162-162

20' LT. LINE EK. AH

-L- REV PI 349+00 LINE EK
POT 349+00 LINE AH